

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| S1    | 1     | 10/717839  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/09/06 11:31 |
| S2    | 74475 | "174".clas.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/09/03 12:29 |
| S3    | 372   | S2 and (stiffener\$2)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/12/02 13:19 |
| S4    | 25    | ("20010018799"   "20020141165"  <br>"3977075"   "4452359"   "4533978"<br>  "4988577"   "5133118"  <br>"5186377"   "5198279"   "5245509"<br>  "5378545"   "5412538"  <br>"5445450"   "5784263"   "5873162"<br>  "5958556"   "6084182"  <br>"6094358"   "6122815"   "6123554"<br>  "6155433"   "6238245"  <br>"6260265"   "6276041"  <br>"6285563").PN. OR ("6880243").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR               | OFF     | 2005/09/03 13:59 |
| S5    | 20    | ("3557983"   "4893403"  <br>"4989139"   "4994986"   "5249343"<br>  "5357672"   "5386341"  <br>"5397921"   "5409865"   "5525834"<br>  "5546654"   "5557843"  <br>"5600881"   "5663106").PN. OR<br>("5873162").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR               | OFF     | 2005/09/03 14:06 |
| S6    | 17    | ("5219794"   "5311402"  <br>"5477933"   "5634268"   "5759737"<br>  "5834848"   "5894410"  <br>"5900675"   "6014317"   "6050832"<br>  "6104093"   "6177728"  <br>"6191952"   "6284569"   "6309915"<br>  "6317331"   "6333563").PN. OR<br>("6816385").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR               | OFF     | 2005/09/03 14:14 |
| S7    | 3     | "6816385".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/09/06 11:47 |
| S8    | 2     | "6075710".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/09/06 13:49 |

## EAST Search History

|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S9  | 2       | "5900675".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/07 08:56 |
| S10 | 2       | "6014317".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/07 09:43 |
| S11 | 3022    | 174/256,260,259.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/07 10:27 |
| S12 | 1       | 10/652847   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:13 |
| S13 | 615111  | PB or PCB or PWB or (printed near board\$2) or (circuit near board\$2) or (wiring near board\$2)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:32 |
| S14 | 726161  | ((circuit or printed or wiring) with (board or substrate))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:17 |
| S15 | 895857  | S13 or S14  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:18 |
| S16 | 445415  | S13 and S14   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:18 |
| S17 | 523370  | PB or PCB or PWB or ((printed or circuit or wiring)with (board\$2 or substrate\$2))                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:38 |
| S18 | 523370  | (PB or PCB or PWB) or ((printed or circuit or wiring)with (board\$2 or substrate\$2))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:23 |
| S19 | 2528609 | PB or PCB or PWB or (printed near board\$2) or (circuit near board\$2) or (wiring near board\$2)or substrate\$2 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:34 |
| S20 | 2452315 | PB or PCB or PWB or (printed near board\$2) or (circuit near board\$2) or (wiring near board\$2)or substrate    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:34 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S21 | 523370 | ((printed or circuit or wiring)with (board\$2 or substrate\$2))or((PB or PCB or PWB)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:36 |
| S22 | 337480 | ((printed or circuit or wiring)with (board\$2 or substrate\$2))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:36 |
| S23 | 869236 | PB or PCB or PWB or ((printed or circuit or wiring)with (board or substrate))         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:39 |
| S24 | 905897 | PB or PCB or PWB or ((printed or circuit or wiring)with (board\$1 or substrate\$1))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:42 |
| S25 | 0      | S24 and lid41   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:43 |
| S26 | 18493  | S24 and lid\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:44 |
| S27 | 3910   | S26 and ("174\$.ccls" or "361"\$.ccls. or "257"\$.ccls.)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:45 |
| S28 | 4104   | S26 and ("174"\$.ccls. or "361"\$.ccls. or "257"\$.ccls.)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:46 |
| S29 | 118126 | S24 and ("174"\$.ccls. or "361"\$.ccls. or "257"\$.ccls.)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:47 |
| S30 | 4104   | S29 and lid\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:48 |
| S31 | 1106   | S29 and LGA   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 17:25 |
| S32 | 2      | S29 and AlSiC-9   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:51 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S34 | 4309 | S29 and (Invar or SiC)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:53 |
| S35 | 1013 | S31 and package\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 10:56 |
| S36 | 127  | S35 and S30  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:33 |
| S37 | 4    | ("20030042598"   "20040036183"  <br>"6317326"   "6665187").PN. OR<br>("6861292").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:16 |
| S38 | 4    | ("20030042598"   "20040036183").<br>PN. OR ("6784535").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:18 |
| S39 | 14   | ("20040016996"   "20040155358"  <br>"20040188862"   "5909056"  <br>"6091603"   "6103550"   "6262489"<br>  "6472762"   "6504242"  <br>"6617683"   "6744132"   "6756685"<br>  "6773963"   "6784535").PN. OR<br>("6909176").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:20 |
| S40 | 13   | ("5121190"   "5724230"  <br>"5919329"   "5970319"   "6015722"<br>  "6018196"   "6111313"  <br>"6140707"   "6188578"   "6472762"<br>  "6597575").PN. OR ("6744132").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:25 |
| S41 | 2    | "6317326".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 12:25 |
| S42 | 21   | ("5268814"   "5285351"  <br>"5291064"   "5345107"   "5528456"<br>  "5705850"   "5880524"  <br>"5923086").PN. OR ("6317326").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:25 |
| S43 | 10   | ("5291064"   "5508230"  <br>"5895972"   "5907189"   "5985412"<br>  "6118177"   "6245249"  <br>"6317326"   "6390181").PN. OR<br>("6706562").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:28 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S44 | 43   | ("3990100"   "4168113"   "4203129"   "4529685"   "4582954"   "4617252"   "4649992"   "5004307"   "5061568"   "5070040"   "5106786"   "5146314"   "5243458"   "5291064"   "5354717"   "5376587"   "5418019"   "5500540"   "5508230"   "5610442"   "5644163").PN. OR ("5895972").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:31 |
| S45 | 80   | S30 and (substrate\$1 near member\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 12:45 |
| S46 | 20   | ("5386342").PN. OR ("6313521").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 12:59 |
| S47 | 835  | S30 and bar\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 13:29 |
| S48 | 2    | "6014317".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 13:19 |
| S49 | 33   | ("3953566"   "4482516"   "4496793"   "4705762"   "4711804"   "4867235"   "4963697"   "4985296"   "5049981"   "5545473"   "5614763"   "5778523"   "5888630"   "5888631"   "5900312"   "5910685"   "5912654"   "5936305"   "5941447").PN. OR ("6014317").URPN.                         | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 13:25 |
| S50 | 2    | "5958556".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 13:26 |
| S51 | 26   | ("2819032"   "3071217"   "3078969"   "3159249"   "3160549"   "4053943"   "4133157"   "4566231"   "4988577"   "5183863"   "5262232"   "5308887"   "5557503").PN. OR ("5958556").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 13:26 |
| S52 | 1147 | S30 and ring\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 13:29 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S53 | 132 | S31 and S30   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 14:05 |
| S54 | 32  | S53 and ring\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 14:06 |
| S55 | 11  | ("20020132501"   "5763941"  <br>"5821764"   "5832601"   "5917707"<br>  "5974662"   "6060891"  <br>"6147876"   "6215320"   "6351133"<br>  "6483328").PN. OR ("6917525").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 14:18 |
| S56 | 10  | ("5291064"   "5508230"  <br>"5895972"   "5907189"   "5985412"<br>  "6118177"   "6245249"  <br>"6317326"   "6390181").PN. OR<br>("6706562").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 14:20 |
| S57 | 13  | ("5121190"   "5724230"  <br>"5919329"   "5970319"   "6015722"<br>  "6018196"   "6111313"  <br>"6140707"   "6188578"   "6472762"<br>  "6597575").PN. OR ("6744132").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 14:22 |
| S58 | 27  | ("20010008776"   "5376588"  <br>"5696027"   "5811317"   "5866943"<br>  "5952726"   "6015722"  <br>"6048753"   "6053394"   "6064113"<br>  "6111313"   "6111756"  <br>"6114761"   "6198635"   "6201301"<br>  "6236568"   "6250127"  <br>"6323066").PN. OR ("6472762").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/01 14:28 |
| S59 | 142 | (Zafer "S." Kutlu).in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:02 |
| S60 | 0   | S28 and (Zafer "S." Kutlu).in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:05 |
| S61 | 0   | S28 and (Kutlu).in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:05 |
| S62 | 0   | S28 and (Zafer Kutlu).in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:05 |

## EAST Search History

|     |    |                            |   |    |     |                  |
|-----|----|----------------------------|---|----|-----|------------------|
| S63 | 0  | S28 and ( Kutlu Zafer).in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:06 |
| S64 | 15 | S24 and ( Kutlu Zafer).in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:15 |
| S65 | 2  | "6313521".pn.              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 15:16 |
| S66 | 68 | S36 and socket             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 16:26 |
| S67 | 11 | "6472762"                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 16:27 |
| S68 | 2  | "6472762".pn.              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 17:23 |
| S69 | 37 | S35 and SiC                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 17:41 |
| S70 | 5  | "633460".pn.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 17:45 |
| S71 | 2  | "6333460".pn.              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/01 18:06 |
| S72 | 5  | "633460".pn.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:32 |
| S73 | 2  | "6333460".pn.              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:41 |
| S74 | 2  | "20020079117".pn.          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:43 |

## EAST Search History

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S75 | 2      | "6472762".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:44 |
| S76 | 2      | "6313521".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:45 |
| S77 | 2      | "6014317".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:51 |
| S78 | 2      | "6784535".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:54 |
| S79 | 2      | "6917525".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 08:55 |
| S80 | 11     | ("20020132501"   "5763941"  <br>"5821764"   "5832601"   "5917707"<br>  "5974662"   "6060891"  <br>"6147876"   "6215320"   "6351133"<br>  "6483328").PN. OR ("6917525").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/02 08:59 |
| S81 | 905897 | PB or PCB or PWB or ((printed or<br>circuit or wiring)with (board\$1 or<br>substrate\$1))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 09:05 |
| S82 | 118126 | S81 and ("174"\$.ccls. or "361"\$.<br>ccls. or "257"\$.ccls.)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 09:05 |
| S83 | 3755   | S82 and (AlSiC-9 or CuW or SiC)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 09:08 |
| S84 | 3629   | S83 and (substrate\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 13:19 |
| S85 | 3      | S84 and (substrate\$1 near<br>reinforcement)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 09:19 |



## EAST Search History

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S86 | 62     | S84 and (reinforcement)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 10:00 |
| S87 | 2      | "6472762".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 11:23 |
| S88 | 27     | ("20010008776"   "5376588"  <br>"5696027"   "5811317"   "5866943"<br>  "5952726"   "6015722"  <br>"6048753"   "6053394"   "6064113"<br>  "6111313"   "6111756"  <br>"6114761"   "6198635"   "6201301"<br>  "6236568"   "6250127"  <br>"6323066").PN. OR ("6472762").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/02 13:02 |
| S89 | 25     | ("20010018799"   "20020141165"  <br>"3977075"   "4452359"   "4533978"<br>  "4988577"   "5133118"  <br>"5186377"   "5198279"   "5245509"<br>  "5378545"   "5412538"  <br>"5445450"   "5784263"   "5873162"<br>  "5958556"   "6084182"  <br>"6094358"   "6122815"   "6123554"<br>  "6155433"   "6238245"  <br>"6260265"   "6276041"  <br>"6285563").PN. OR ("6880243").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/12/02 13:12 |
| S90 | 905897 | PB or PCB or PWB or ((printed or<br>circuit or wiring)with (board\$1 or<br>substrate\$1))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 13:16 |
| S91 | 118126 | S90 and ("174"\$.ccls. or "361"\$.<br>ccls. or "257"\$.ccls.)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 13:16 |
| S92 | 90361  | S91 and (substrate\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 13:19 |
| S93 | 875    | S92 and (stiffener\$2)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/02 13:54 |
| S94 | 714    | 361/803.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/12/05 08:34 |